

Optimized Cellular Core for Rotorcraft, Phase II

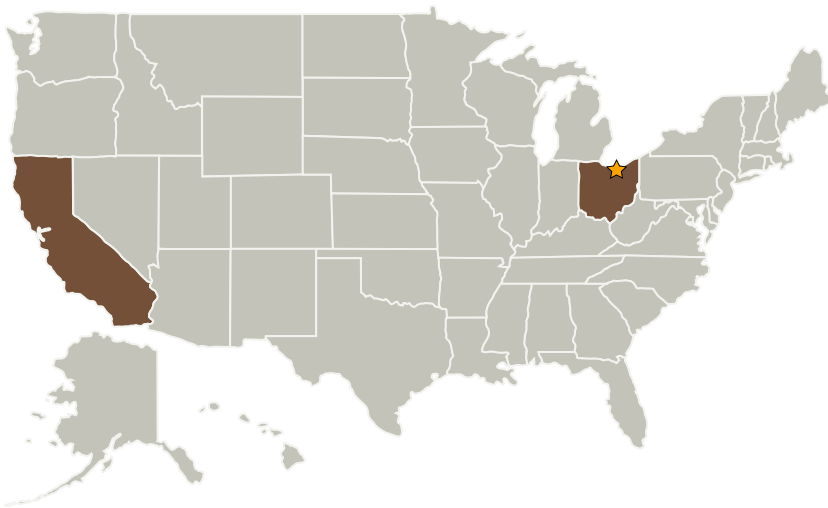
Completed Technology Project (2007 - 2009)



Project Introduction

Patz Materials and Technologies has developed, produced and tested, as part of the Phase-I SBIR, a new form of composite cellular core material, named Interply Core, this new product is a major step forward in composite core technology. The Interply Core was physically tested to have twice the compressive strength compared to the same density aramid paper and glass fabric core presently available to the aerospace industry. In addition, the new core material has the ability be utilized without any change in the composite aerospace structures manufacturing processes. The Phase II project will be to develop the production equipment to make significant quantities of Interply Core and then build and test different material iterations to quantify all parameters of Interply Core's abilities. At the end of phase II the rotorcraft, as well as other aerospace industries, will have a new material to significantly lower weight without changing platform production methodologies.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Glenn Research Center(GRC)	Lead Organization	NASA Center	Cleveland, Ohio
Patz Materials & Technologies	Supporting Organization	Industry	Benicia, California



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Glenn Research Center (GRC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations

California

Ohio

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX12 Materials, Structures, Mechanical Systems, and Manufacturing
 - └ TX12.1 Materials
 - └ TX12.1.1 Lightweight Structural Materials